



Gp/2817

172A 3244 PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

TOSHIKAZU UCHIYAMA et al.

Serial No.: 10/088,420

Filed: March 13, 2002

For: PIEZO OSCILLATORS

#3/I.D.S.  
4/1/03  
Smith

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.97(b)(3)**

Commissioner for Patents  
Washington, D.C. 20231

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Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, Applicant for the above-identified application hereby submits legible copies of the following relevant arts along with the Form PTO-1449 which contains the information required by 37 CFR 1.98(b):

- A. U.S. Patent No. 4,193,046 issued on March 11, 1980 to Chiba; and
- B. Japanese Utility Model Application Laid-Open (Kokai) No. 54-183256 published in Japan on December 26, 1979.

The prior art B is in Japanese. An English translation of this prior art is not available at this time to the undersigned, and such translation is not attached hereto.


A concise explanation of relevance of the prior art B is presented below pursuant to 37 CFR 1.98(a)(3):

The prior art B discloses a crystal oscillation circuit with a time constant circuit connected thereto. The time constant circuit includes a resistor and a condenser of a few  $\mu F$  or higher that are connected in series. The time constant circuit is connected so as to apply high bias to an oscillation transistor only at the time of start of oscillation.

It is respectfully requested that the Patent Office make a record of this relevant art and consider it during the prosecution.

Respectfully submitted,

KODA & ANDROLIA

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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:


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